

```
FL39      1 MAAV.....RTER.....DIVE.....
ICK1      1 M...V.....KYTKAK.....GIVE.....
FL67      1 M.....SKYTKSKIDGAGAGAGGGGGGGGGESSIAL...VSEP...
FL66      1 M.....SKYTKSKITG.....DISUMEVSKATAPG...
ALFCDKI   1 M.....SKYTKSKLK.....SKSESPSPN
CrCKI     1 MAAAATPTSSP...KLMK.....VKS.....

FL39      14 .....ENGVTT.....
ICK1      14 .....A.GVSS.....
FL67      41 .....SSSLGVLTIRAKTALQQQQQRCLLKPSPP
FL66      27 .....P....GVRPAAKTAL...KR..LSSAAD
ALFCDKI   19 STPTPSPSPSPPTITNSPPTTPNSSDGVRT...ARHLE...NS...
CrCKI     22 .....

FL39      20 .....TT..VKR...KMEEEVDLVER
ICK1      19 .....IV..M...
FL67      72 SSLPPTSASPNNPPSKQKMKKKQQQM...CG...
FL66      49 SALP.....N...SSC...
ALFCDKI   61 .....NNQNQLSVSS...ST...
CrCKI     22 .....SYNTPOLR...

FL39      37 RIILSPCVQATNRGGIVAR.....
ICK1      26 R.....R..IVYV.....
FL67      108 R.....RLQKKP.....IVVIRSTKRR...QRRNETCGRNPN
FL66      64 R.....RLE.KPSSLIE.....P.
ALFCDKI   80 R.....RIKR.....ELIQHSAKRN...GHG...
CrCKI     31 R.....P.....N

FL39      56 .....NSAASE..TEV...VVRRRDSPPDEEQ.....
ICK1      33 .....SEKSSSEV...GVV.....
FL67      140 .....PNSNLDSTRGDSRS..DEVSE...GVVFGKDKDLSE.I...NKDPTF...
FL66      79 ...LVHRSGIKESRSRSDSVN...GVP.....VAQSS...DETECTONE
ALFCDKI   102 ...FK...SFI...G...DTAEKIV...OKSPEPENAB...FK...
CrCKI     35 LSAA.....

FL39      80 ..CQIEEESSV.SCCSTSEE.KSKRRIEVDLLE..NNGDDRET.EISWIY...
ICK1      43 .....GNGVSSBCSGSNEYKKK...ELIH...EDKDGD...I.EYS.TYRRG
FL67      180 .....G...FLEHEHTQSFNHTRES...
FL66      117 VSVQVSCCENSIG.....SRH...STRES...
ALFCDKI   129 .....NA...ETN...RSAR...
CrCKI     39 .....EN...EAT...ED...

FL39      125 .....DDLNKSEESMNMDS..SSVAVEDVE.....
ICK1      83 VKRKLCENLREEEKEELSKSME..NYSSEFESAVK...E...
FL67      202 TE.....CS.....LIRREIM...TI...EG
FL66      140 TE.....CN.....FVEDMEIM...VI...EG
ALFCDKI   142 TE.....VH.....LMRADVIRPPRPPIHRTT.FE.
CrCKI     47 TELEVAAVVEEEEVANCS.....SSEVI...TIARSDPP
```

Figure 1

FL39 148 GRRR.....RSSLHETV..  
ICK1 117 E...LDCS.....GRRTMEPTMTA  
FL67 218 ESTANIS..VS.....SNOS..EDELRS  
FL66 156 SSF2.SMRATK.....EYTE..QENMI.  
ALFCDKI 166 .....ANPS..TL..  
CrCKI 79 E.....CSSNYDQLSSSEPEVVKDDGLGNRTADPEVESGASSA..QK...E

FL39 161 .....K.....SALLDDFQVAKELRNKLMCSMK  
ICK1 135 EEEKAKLMT.....EMPTES..EDFFVEAKOLKEM...KKS  
FL67 239 SHRRR.....PTT.....S...EDFFVEAKOLKEM...KKS  
FL66 177 .....PTT.....S...EDFFVEAKOLKEM...KKS  
ALFCDKI 174 .....Q.....PTT.....S...EDFFVEAKOLKEM...KKS  
CrCKI 123 SHRTEA...EATKLDODDY...KSTVQIKMPS...S...EDFFVEAKOLKEM...KKS

FL39 187 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
ICK1 171 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
FL67 268 YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
FL66 201 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
ALFCDKI 202 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
CrCKI 175 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR

FL39 204 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
ICK1 187 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
FL67 322 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
FL66 217 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
ALFCDKI 218 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR  
CrCKI 191 .....YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR...YVFFRFICSVLLVMSFQFVLFFSFGVLVSLMVSVNSFFR

FIGURE 1 (continued)

Figure 2B

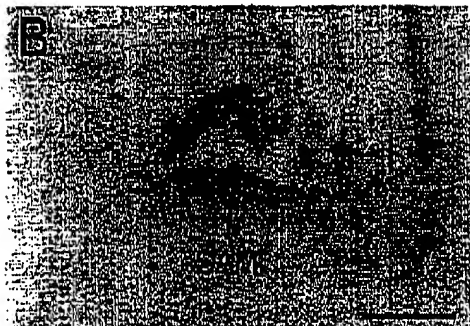


Figure 2D



Figure 2E



Figure 2C

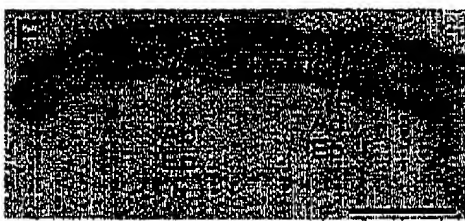
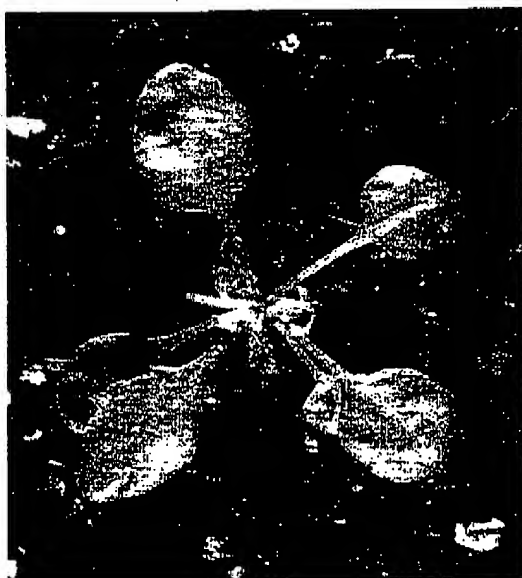


Figure 2F

**Control**



**Figure 3A**

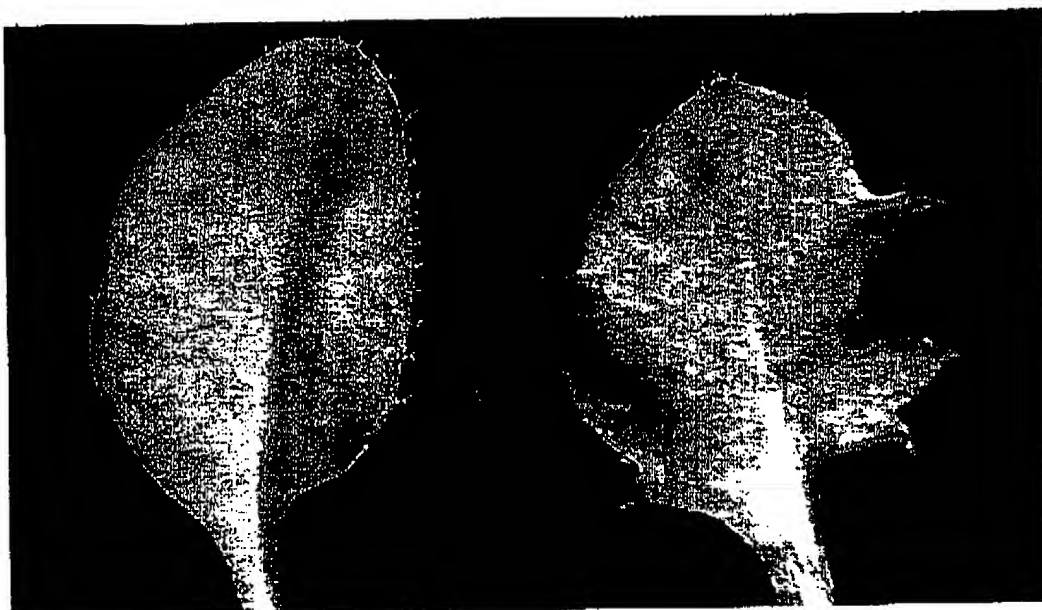
**ICK2 1.10**



**Figure 3B**

**Control**

**ICK2 1.10**



**Figure 3C**

Figure 4A

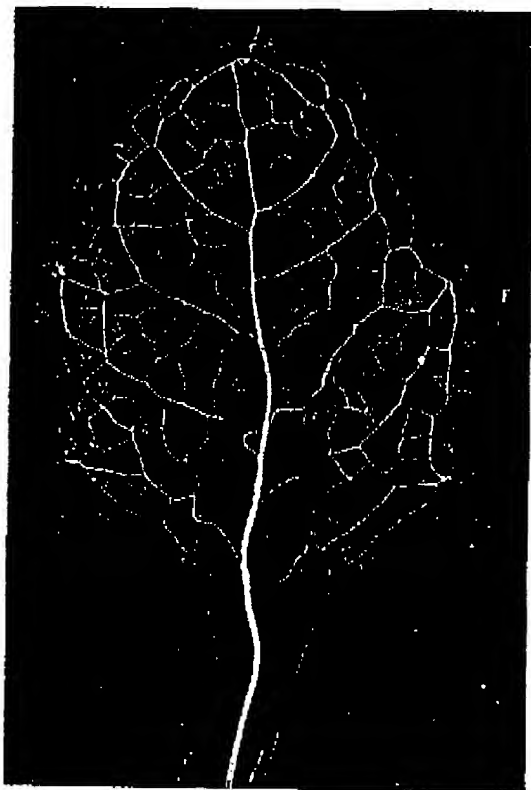
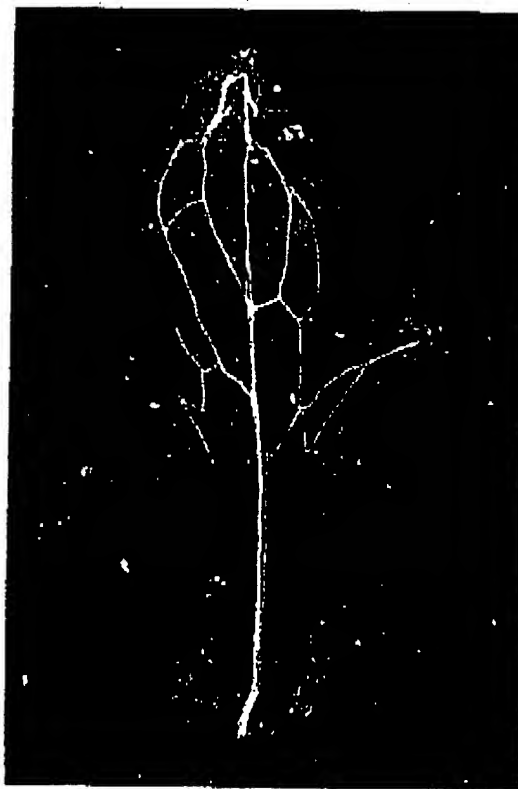


Figure 4B



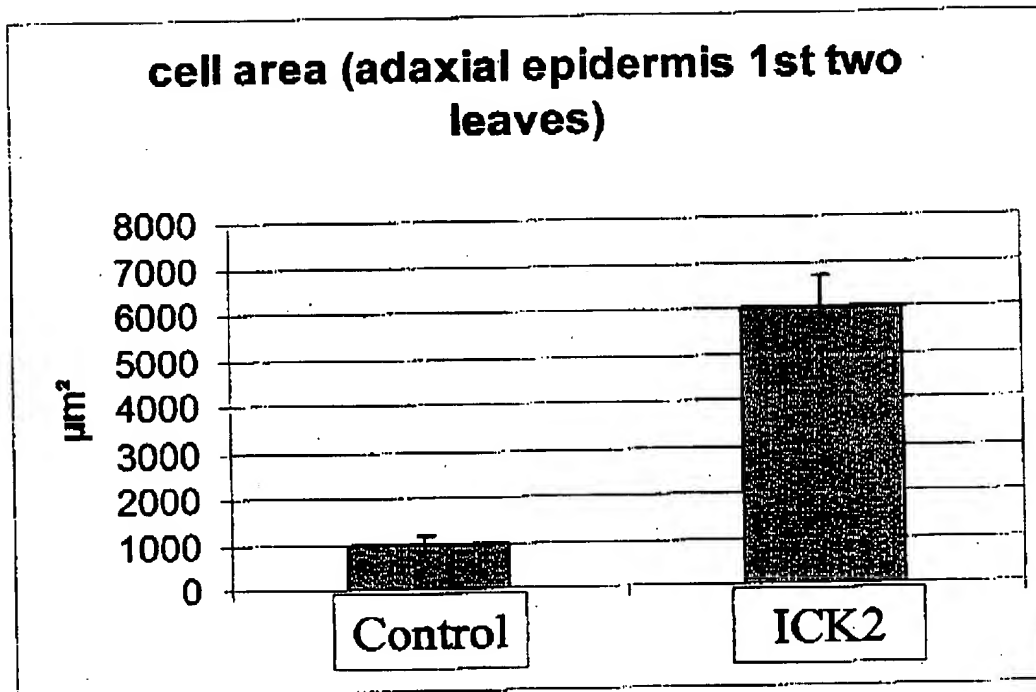


Figure 5

Figure 6A

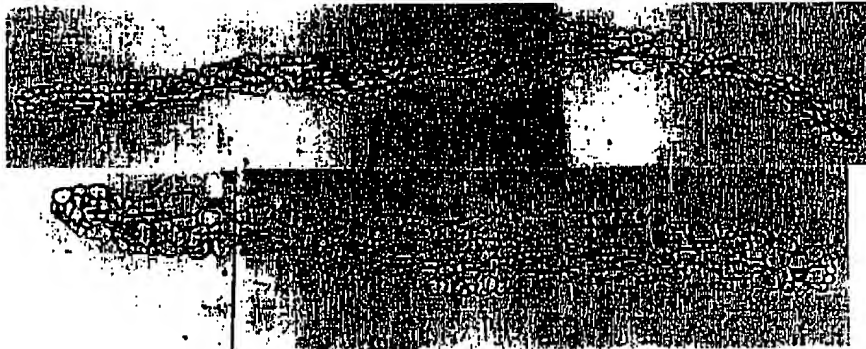
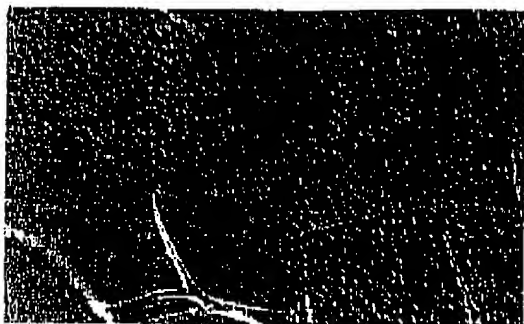


Figure 6B



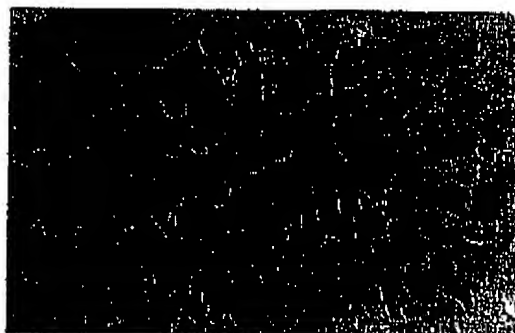
Narrow leaves: Whole-mount study of cleared leaves (1<sup>st</sup> rosette leaves)

A



WT: DIC image of adaxial epidermis

B



35SFL39: DIC image of adaxial epidermis (same magnification as WT)

C



WT: DIC image of palissade layer

D



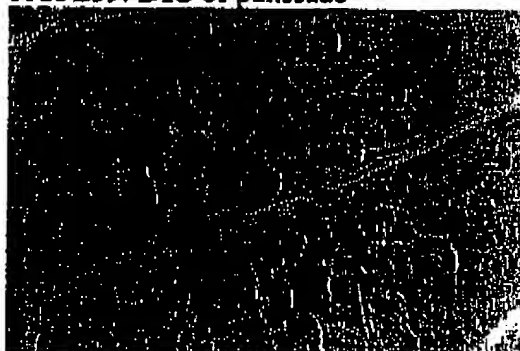
35SFL39: DIC of palissade

E



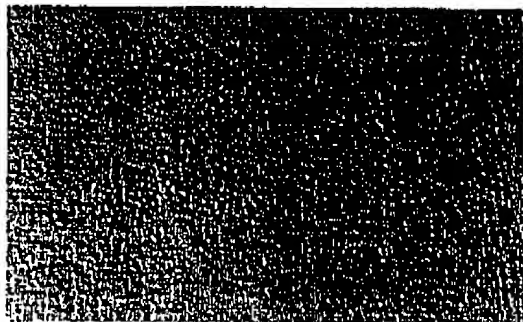
WT: DIC image of spongy parenchyma

F



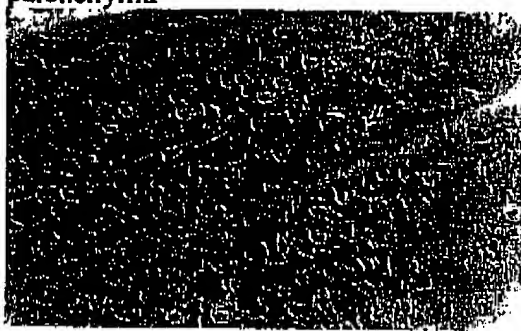
35SFL39: DIC image of spongy parenchyma

G



WT: DIC image of abaxial epidermis

H



35SFL39: DIC image of abaxial epidermis

Figure 7

## Control



Figure 8A



Figure 8B

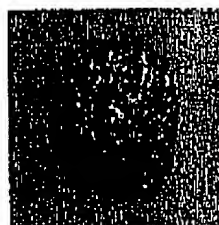
## ICK2

Figure 9A

Figure 9B



WT seed



35SFL39 seed

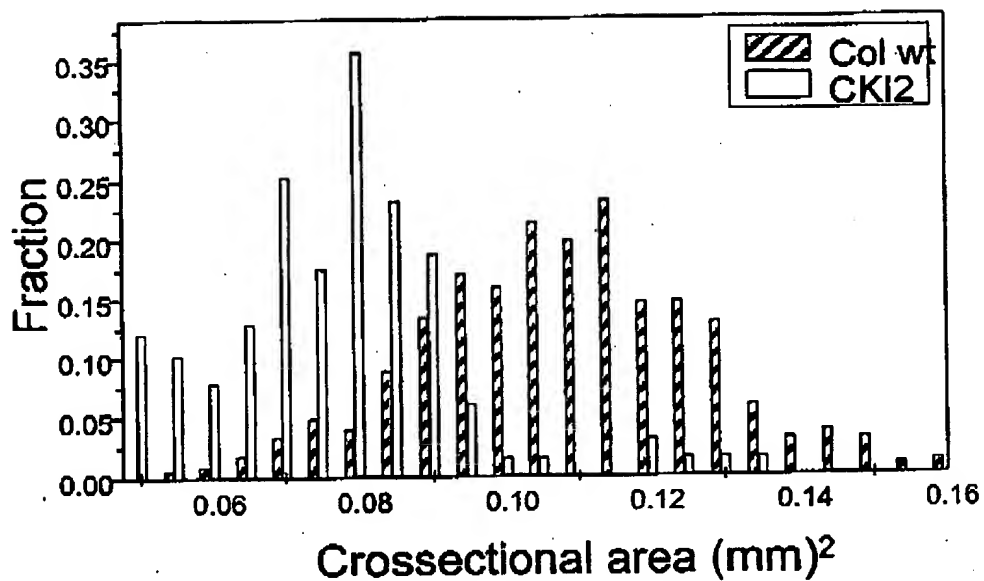


Figure 10

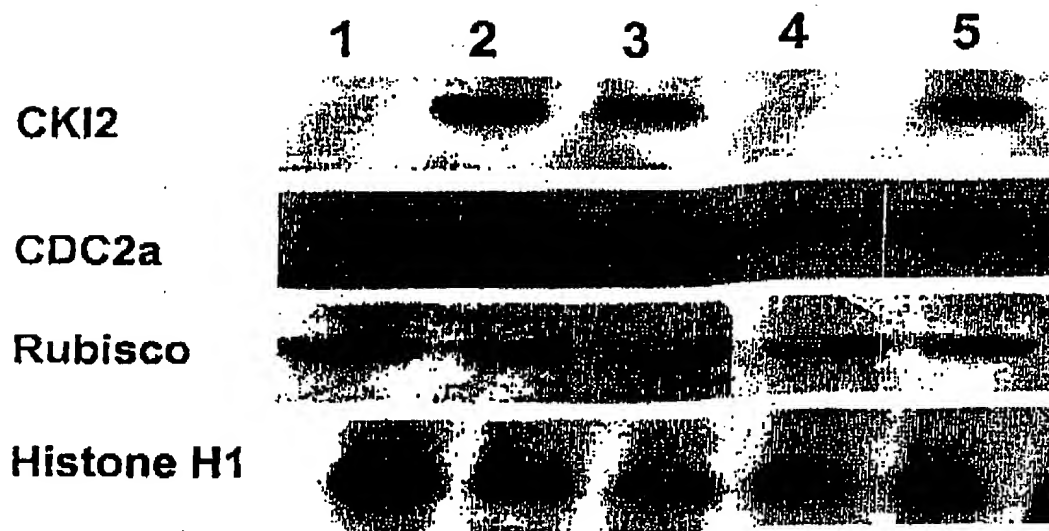


Figure 11

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